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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/781,953	02/14/2001	Atsushi Murakami	P 277864	9766	
23117 7	590 06/27/2003				
NIXON & VANDERHYE, PC 1100 N GLEBE ROAD 8TH FLOOR			EXAMINER		
			MILLER, PATRICK L		
AKLINGTON,	, VA 22201-4714		ART UNIT	PAPER NUMBER	
			2837		
			DATE MAILED: 06/27/2003	DATE MAILED: 06/27/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u>`</u>		Application No.	Applicant(s)				
Office Action Summary		Application No.	Applicant(s)				
		09/781,953	MURAKAMI ET AL.				
		Examiner	Art Unit				
		Patrick Miller	2837				
Period fo	The MAILING DATE of this communication app or Reply	lears on the cover sheet with the c	orrespondence address				
THE - Exter after - If the - If NO - Failu - Any I	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on <u>07 A</u>	<u> April 2003</u> .					
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	is action is non-final.					
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims	Lx parte Quayle, 1905 C.D. 11, 4	700 O.G. 210.				
4)⊠	Claim(s) 1,3,7,11 and 13-18 is/are pending in	the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1,3,7,11 and 13-18</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
-	Claim(s) are subject to restriction and/o	r election requirement.					
	The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>14 February 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) ☐ The oath or declaration is objected to by the Examiner.							
Priority (ınder 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	⊠ All b) Some * c) None of:						
	1. Certified copies of the priority document						
	2. Certified copies of the priority document	• •					
* 5	Copies of the certified copies of the prior application from the International Busee the attached detailed Office action for a list.	reau (PCT Rule 17.2(a)).					
14) 🗌 A	Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119(e) (to a provisional application).				
) \square The translation of the foreign language prod Acknowledgment is made of a claim for domest						
Attachmen	t(s)						
2) Notic	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				
S. Patent and T	rademark Office						

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DETAILED ACTION

Response to Amendment

1. The indicated allowability of claims 2, 6, 10, and 12-16 is withdrawn in view of the newly discovered reference(s) to Herrington et al (5,032,622). The Examiner regrets the initial indication of allowability of the aforementioned claim. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3, 7, 11, and 13-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herrington et al (5,032,622) in view of Osanai et al (6,237,717) [cited in previous action].
 - Herrington et al disclose a shape foam memory foam member made of polyurethane foam and method (Title and Abstract) with the following characteristics: a bulk density that is not more than 400 kg/m³ (Col. 1, lines 36-39); said member has an original shape and is compressed with heating, cooled while in the compressed state, released from the compressed state after cooling, and the original shape is recovered by heating (Abstract).
 - Herrington et al do not disclose said member having a coefficient of water absorption between .01g/cm³ and .2g/cm³, said member is provided on a surfaced of an engine soundproof cover (claims 3 and 7), and the shape of said member is recovered by engine heat (claims 17 and 18).

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- Osanai et al disclose a noise-insulating member made of polyurethane foam that covers an engine, where said insulating member has a 125g/cm³ coefficient of water absorption. Specifically, Table 1, #2 begins with a foam density of .1 g/cm³. Next, referring to Table 2, #2 has an increase of +25.3%, making the coefficient of water absorption .125 g/cm³, which is within the disclosed range of .01g/cm³ to .2g/cm³. The motivation for providing a foam member with a .125g/cm³ coefficient of water absorption is to prevent the foam from significantly retaining water, which provides the advantage of increasing the foam shape's density a smaller percentage than that of comparative examples (Comparing Tables 3 and 4).
- With respect to claims 17 and 18, Herrington et al disclose the transition temperature, Tg being 35° C (95° F). A person of ordinary skill in the art would know that the operating temperature of an engine is above 35° C.
- of the invention to modify the shape memory foam of Herrington et al so that it exhibits characteristics of water repellency, wherein the coefficient of water absorption is .125g/cm³, which falls into the range of .01g/cm³ to .2g/cm³, thereby providing the advantage of increasing the foam shape's density by a smaller percentage, as taught by Osanai et al. Additionally, it would have been obvious to one having ordinary skill in the art at the time of the invention that the shape memory foam of Herrington et al can be fitted to a soundproof cover that fits over an engine, and the engine provides the heat to recover the original shape of the foam member, thereby providing the advantage of

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preventing undesirable noise from entering the passenger compartment, as taught by Osanai et al.

• With respect to claims 13-16, Herrington et al disclose the member having a bulk density that is not more than 150 kg/m³ (Col. 1, lines 36-39).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick Miller whose telephone number is 703-308-4931. The examiner can normally be reached on 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Nappi can be reached on 703-308-3370. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3431.

Patrick Miller Examiner Art Unit 2837

pm June 20, 2003

> ROBERT E. NAPPI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800